

C L A I M S

1. A disc drive unit for rotating a disc-shaped recording medium, comprising:

5 a rotary table having a reference surface on which said disc-shaped recording medium is placed;
a head for reading information from said disc-shaped recording medium and/or writing information to said disc-shaped recording medium;
at least one guide member having an inner
10 peripheral end and an outer peripheral end located on the inner peripheral side and the outer peripheral side, respectively, of said disc-shaped recording medium mounted on said rotary table and guiding said head for sliding motion in the radial direction of said disc-shaped recording medium;

15 a tilt adjustment mechanism for adjusting a tilt of at least the guide member in the radial direction of said disc-shaped recording medium with respect to said reference surface; and

20 regulating means for restricting the distance from at least said outside end to said reference surface, wherein

the position of said inner peripheral end of the guide member is adjusted such that the inner peripheral
25 end is closer to the reference surface than said outer peripheral end, restricted by said regulating means, is.

2. The disc drive unit according to claim 1, wherein the tilt of said guide member is adjusted by said adjustment mechanism so that the distance from at least
30 a part of said head to said reference surface of said rotary table can lie within a given fluctuation amount of the outer periphery of said disc-shaped recording medium.

3. The disc drive unit for rotating a disc-shaped recording medium, comprising:

a rotary table having a reference surface on which said disc-shaped recording medium is placed;

5 a head for reading information from said disc-shaped recording medium and/or writing information to said disc-shaped recording medium;

at least one guide member having an inner peripheral end and an outer peripheral end located on
10 the inner peripheral side and the outer peripheral side, respectively, of said disc-shaped recording medium mounted on said rotary table and guiding said head for sliding motion in the radial direction of said disc-shaped recording medium; and

15 a tilt adjustment mechanism for adjusting a tilt of at least the guide member in the radial direction of said disc-shaped recording medium with respect to said reference surface, wherein

the tilt of said guide member is adjusted by said
20 adjustment mechanism so that the distance from at least a part of said head to said reference surface of said rotary table can be restricted within a given fluctuation amount of the outer periphery of said disc-shaped recording medium.

25 4. The disc drive unit for rotating a disc-shaped recording medium, comprising:

a rotary table having a reference surface on which said disc-shaped recording medium is placed;

30 a head for reading information from said disc-shaped recording medium and/or writing information to said disc-shaped recording medium;

at least one guide member having an inner peripheral end and an outer peripheral end located on

the inner peripheral side and the outer peripheral side, respectively, of said disc-shaped recording medium mounted on said rotary table and guiding said head for sliding motion in the radial direction of said disc-shaped recording medium;

5 a tilt adjustment mechanism for adjusting a tilt of at least the guide member in the radial direction of said disc-shaped recording medium with respect to said reference surface; and

10 a protective member located between said reference surface and said guide member and serving to prevent said guide member from being exposed toward said reference surface, wherein

the tilt of said guide member is adjusted by said
15 adjustment mechanism so that the distance from at least a part of said head to said reference surface of said rotary table can be restricted within a given fluctuation amount of the outer periphery of said disc-shaped recording medium.

20 5. The disc drive unit according to claim 2, 3 or 4, wherein said given fluctuation amount of the outer periphery is 0.9 mm.

25 6. A disc drive unit according to claim 1, 2 or 3, which further comprises a protective member located between said reference surface and said guide member and serving to prevent said guide member from being exposed toward said reference surface.

30 7. The disc drive unit according to claim 4 or 6, wherein said protective member is inclined so that said inner peripheral end side is situated closer to said reference surface than said outer peripheral end side is.

8. The disc drive unit according to claim 4 or 6,

wherein said protective member has a recess into which at least a part of said head is evacuated.

9. The disc drive unit according to claim 8, wherein said inner peripheral end side of said recess is
5 inclined so that the inner peripheral end side of the recess is situated closer to the reference surface than said outer peripheral end side is.

10. The disc drive unit according to claim 4, 6 or 8, wherein an adjustment range for said inner peripheral
10 end and/or said outer peripheral end of said guide member is restricted by said protective member during the adjustment by said tilt adjustment mechanism.

11. The disc drive unit according to any one of claims 1 to 10, wherein said tilt adjustment mechanism adjusts
15 a distance between the reference surface and said inner peripheral end or the outer peripheral end.

12. The disc drive unit according to claim 10, wherein said tilt adjustment mechanism is provided only on the inner peripheral end side of said guide member.

20 13. A disc drive unit according to any one of claims 1 to 11, wherein said tilt adjustment mechanism is provided on each of said inner and outer peripheral end sides of said guide member.